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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/663,817	09/17/2003	Harry A. Dugger III	3633-038-999	4051	
24998	7590 03/08/2006		EXAM	EXAMINER	
DICKSTEIN SHAPIRO MORIN & OSHINSKY LLP 2101 L Street, NW			HAGHIGHAT	HAGHIGHATIAN, MINA	
	Washington, DC 20037			PAPER NUMBER	
,			1616		
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DATE MAILED: 03/08/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)		
	10/663,817	DUGGER, HARRY A.		
Office Action Summary	Examiner	Art Unit		
	Mina Haghighatian	1616		
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with	the correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICA 136(a). In no event, however, may a reply will apply and will expire SIX (6) MONTH e, cause the application to become ABAN	TION. y be timely filed S from the mailing date of this communication. IDONED (35 U.S.C. § 133).		
Status				
1) ☐ Responsive to communication(s) filed on 22 / 22) ☐ This action is FINAL . 2b) ☐ This 3) ☐ Since this application is in condition for allowed closed in accordance with the practice under the condition of the con	s action is non-final. ance except for formal matter	•		
Disposition of Claims				
4) ☐ Claim(s) 1-29 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-29 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers	over election requirement.			
9) The specification is objected to by the Examination The drawing(s) filed on is/are: a) accomposition and accomposition and accomposition and accomposition and accomposition and accomposition are declaration in the correct specific to be accomposition of the correct specific to accomposition and accomposition are declaration in the correct specific to be accomposition of the correct specific to accomposition and accomposition are declaration in the correct specific to accomposition and accomposition are declaration as a composition and accomposition are declaration as a composition and accomposition are declaration as a composition are decla	cepted or b) objected to by drawing(s) be held in abeyance ction is required if the drawing(s)	e. See 37 CFR 1.85(a). is objected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Sun	nmary (PTO-413)		
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/N	Mail Date rmal Patent Application (PTO-152)		

DETAILED ACTION

Receipt is acknowledged of the Amendments and Remarks filed on 11/22/05. No claims are cancelled while new claims 23-29 are added. Accordingly claims 14-29 are pending.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Deihl (WO 9413280) in view of Fassberg et al (EP 0656206A1) and further in view of Kanios et al (5,719,197).

Deihl teaches a sprayable analgesic composition comprising an analgesic compound which is absorbed into the bloodstream through the buccal mucosa and a pharmacologically acceptable liquid carrier. In a preferred embodiment the active agent is ibuprofen and the liquid carrier is aqueous ethanol (see page 3). The formulation may also contain other ingredients such as surfactants, humectants, flavoring agents, etc (see page 4). The table in example I shows the concentration ranges of each ingredient. Deihl fails to disclose other suitable active agents for the said formulation, or the use of other solvents including polyethylene glycol and non-polar solvent.

Fassberg discloses aerosol, formulations for oral or nasal administration, which comprise a medicament, an excipient, propellant and optionally surfactants. The suitable excipients include alcohols, polyethylene glycols, short chain fatty acids, etc (see page 3). Fassberg discloses that any pharmaceutically active agent which can be delivered by oral or nasal inhalation may be

Application/Control Number: 10/663,817

Art Unit: 1616

used. Examples include antihistamines, antiallergics, analgesics, antibiotics, steroids,

bronchodilators, antihistamines, etc (see page 5, lines 42-50).

Kanios et al, discussed in detail in previous Office Actions, teaches formulations that can

be in a spray format. The said formulations may contain any one or more of the active agents

listed in columns 12-31, including cyclosporine, clozapine, zidevudine, erythromycin,

ondansetron, phenytoin, cimetidine, etc.

It would have been obvious to a person of ordinary skill in the art at the time the

invention was made given the general teachings of formulations for buccal mucosal

administration, to have looked in the art for other specific solvents suitable for spray

formulations of liquid carriers, as taught by Fassberg et al, with reasonable expectations of

successfully preparing suitable formulations for various therapies. Furthermore it is obvious to

one of ordinary skill in the art to have substituted any suitable active agent for the analgesics of

Diehl's buccal spray formulations as claimed as taught by Kanios et al.

Double Patenting

Claims 1-29 are provisionally rejected on the ground of nonstatutory obviousness-type

double patenting as being unpatentable over claims 27-34, 54-59, 80-82 of copending

Application No. 09/537,118 in view of Kanios et al (5,719,197). The double patenting rejection

is proper because the examined claims and the reference claims are substantially the same. The

difference between claims of the instant application and the claims of the co-pending application

'118 is the active agents. Kanios teaches that various active agents can be used in base

Application/Control Number: 10/663,817

Art Unit: 1616

formulations. Thus it would have been obvious to have substituted active agents in the same base formulations.

This is a provisional obviousness-type double patenting rejection.

Response to Arguments

Applicant's arguments filed 11/22/05 have been fully considered but they are not persuasive.

Applicant argues that Deihl does not disclose a non-polar solvent or the concentration range of 30-99% for a solvent as stated in instant claims. That Fassberg teaches formulations comprising propellants and that Kanios's final product is not administered directly to the oral mucosa.

In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986). As stated in the Office action, Fassberg and Kanios remedy the deficiencies of Deihl. Fassberg discloses non-polar solvent and certain active agents. Kanios also teaches formulations comprising solvents and various active agents. One of ordinary skill in the art would be more than capable of combining the references to improve on the efficiency of a formulation. Furthermore it would have been obvious to one of ordinary skill in the art to have optimized concentration ranges of ingredients. Optimization of ranges are not support for patentability.

Application/Control Number: 10/663,817

Art Unit: 1616

It is also noted that in claims 1-20, composition claims, intended use limitations are not given any weight. Thus, to meet the limitations of such claims, Kanios is not required to teach administration to the oral mucosa. Kanios does teach all the ingredients of the said claims.

Applicant states that "examiner does not identify which claims of the US patent or the copending application would have rendered obvious claims 1-22 of the current application". However since the claims of the co-pending application were similar to the instant claims, it did not seem necessary to identify them. The difference between claims of the instant application and the claims of the co-pending application '118 is the <u>active agents</u>. Kanios teaches that various active agents can be used in base formulations. Thus it would have been obvious to have substituted active agents in the same base formulations.

Applicant also argues that neither application has been indicated as allowable, thus the objection should "be held in abeyance until such time when allowable subject matter is identified in this application". It is noted that co-pending application 09/537,118 has been allowed, although not yet issued.

NOTE: Certain concentration ranges in the claims, such as "37 and 98.58" in claims 14 and 23, "60 and 90.06" in claims 16 and 25 and "0.005-55" in claim 14, etc, do not correspond to concentration ranges stated in the specification (e.g. pages 2-4). Before allowance such concentration ranges should be corrected.

Application/Control Number: 10/663,817 Page 6

Art Unit: 1616

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mina Haghighatian whose telephone number is 571-272-0615. The examiner can normally be reached on core office hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary L. Kunz can be reached on 571-272-0887. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/663,817 Page 7

Art Unit: 1616

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mina Haghighatian March 3, 2006

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